VOLUME 24, 1974
CONTENTS

Number 1, 1974

Banse, K., On the Role of Bacterioplankton in the Tropical Ocean. 1

McCarthy, J. J., W. Rowland Taylor and M. E. Loftus, Significance of Nanoplankton in the Chesapeake Bay Estuary and Problems Associated with the Measurement of Nanoplankton Productivity. 7

Olsson, I. and E. Ölundh, On Plankton Production in Kungsbacka Fjord, an Estuary on the Swedish West Coast. 17

Colin, P. L., Observation and Collection of Deep-Reef Fishes off the Coasts of Jamaica and British Honduras (Belize). 29

Ehrlich, K. F., Chemical Changes during Growth and Starvation of Larval *Pleuronectes platessa*. 39

Carpenter, E. J., B. B. Peck and S. J. Anderson, Survival of Copepods Passing through a Nuclear Power Station on Northeastern Long Island Sound, USA. 49

Venkatachari, S. A. T., Effect of Salinity Adaptation on Nitrogen Metabolism in the Freshwater Fish *Tilapia mossambica*. I. Tissue Protein and Amino Acid Levels. 57

Menon, N. R., Clearance Rates of Food Suspension and Food Passage Rates as a Function of Temperature in Two North-Sea Bryozoans. 65

Swanberg, N., The Feeding Behavior of *Beroe ovata*. 69

Spight, T. M. and A. Lyons, Development and Functions of the Shell Sculpture of the Marine Snail *Ceratostoma foliatum*. 77

Chapman, A. R. O., The Genetic Basis of Morphological Differentiation in Some *Laminaria* Populations. 85

Ward, A. R., Three New Species of Free-Living Marine Nematodes from Sublittoral Sediments in Liverpool Bay. 93

Number 2, 1974

Hughes, D. A. and J. D. Richard, The Nesting of the Pacific Ridley Turtle *Lepidochelys olivacea* on Playa Nancite, Costa Rica. 97

Mague, T. H., N. M. Weare and O. Holm-Hansen, Nitrogen Fixation in the North Pacific Ocean. 109

Shah, N. M. and R. T. Wright, The Occurrence of Glycolic Acid in Coastal Sea Water. 121

Hickel, W., Seston Composition of the Bottom Waters of Great Lameshur Bay, St. John, US Virgin Islands. 125

Vine, P. J., Effects of Algal Grazing and Aggressive Behaviour of the Fishes *Pomacentrus lividus* and *Acanthurus sohal* on Coral-Reef Ecology. 131

Kennedy, V. S., W. H. Roosenburg, H. H. Zion and M. Castagna, Temperature-Time Relationships for Survival of Embryos and Larvae of *Mulinia lateralis* (Mollusca: Bivalvia). 137

Morris, I. and H. E. Glover, Questions on the Mechanism of Temperature Adaptation in Marine Phytoplankton. 147

Rao, Teegavarapu R., Influence of Salinity on the Eggs and Larvae of the California Killifish *Fundulus parvipinnis*. 155

Brockmann, U. H., K. Eberlein, H. D. Junge, H. Trageser und K. J. Trahms, Einfache Folientanks zur Planktonuntersuchung *in situ*. [Simple Foil Tanks for *in situ* Plankton Investigation]. 163

Boilly-Marer, Y., Etude expérimentale du comportement nuptial de *Platynereis dumerilii* (Annelida: Polychaeta): chémoréception, émission des produites génitaux. [Experimental Study on the Nuptial Behaviour of *Platynereis dumerilii* (Annelida: Polychaeta): Chemoreception, Emission of Genital Products]. 167

Langton, R. W. and P. A. Gabbott, The Tidal Rhythm of Extracellular Digestion and the Response to Feeding in *Ostrea edulis*. 181

Number 3, 1974

Jørgensen, B. B. and T. Fenchel, The Sulfur Cycle of a Marine Sediment Model System. 189

Herbland, A. M. et J. F. Bois, Assimilation et minéralisation de la matière organique dissoute dans la mer: méthode par comptage en scintillation liquide [Assimilation and Mineralization of the Dissolved Organic Matter in the Sea: Liquid Scintillation Counting Method]. 203

Thomas, W. H. and A. N. Dodson, Effect of Interactions between Temperature and Nitrate Supply on the Cell-Division Rates of Two Marine Phytoflagellates. 213

Telek, G. and N. Marshall, Using a CHN Analyzer to Reduce Carbonate Interference in Particulate Organic Carbon Analyses. 219

Doig, M. T., III and D. F. Martin, The Response of *Gymnodinium breve* to Municipal Waste Materials. 223

Spight, T. M., C. Birkeland and A. Lyons, Life Histories of Large and Small Murexes (Prosobranchia: Muricidae). 229

Seapy, R. R., Distribution and Abundance of the Epipelagic Mollusk *Carinaria japonica* in Waters off Southern California. 243

Zelickman, E. A., Group Orientation in *Neomysis mirabilis* (Mysidacea: Crustacea). 251

Karplus, I., R. Szlep and M. Tsurnamal, The Burrows of Alpheid Shrimp Associated with Gobiid Fish in the Northern Red Sea. 259

Pfannenstiel, H.-D., Regeneration in the Gonochoristic Polychaete *Ophryotrocha notoglandulata*. 269

Turner, R. L., Post-Metamorphic Growth of the Arms in *Ophiophragmus filograneus* (Echinodermata: Ophiuroidea) from Tampa Bay, Florida (USA). 273

Number 4, 1974

Kayama, M. and J. C. Nevenzel, Wax Ester Biosynthesis by Midwater Marine Animals. 279

Ernst, W. und H. Goerke, Anreicherung, Verteilung, Umwandlung und Ausscheidung von DDT-^{14}C bei *Solea solea* (Pisces: Soleidae). [Accumulation, Distribution, Transformation and Elimination of DDT-^{14}C in *Solea solea* (Pisces: Soleidae)]. 287

Ogura, N., Molecular Weight Fractionation of Dissolved Organic Matter in Coastal Seawater by Ultrafiltration. 305

Gronow, G., Nukleinsäure- und Substratgehalte in der dorsalen Rumpfmuskulatur von Teleosteern während eines „biologischen Stress". [Nucleic Acid and Substrate Contents of the Dorsal Epaxial Muscle of Teleosts during "Biological Stress"]. 313

Bomirski, A. and E. Klęk, Action of Eyestalks on the Ovary in *Rhithropanopeus harrisii* and *Crangon crangon* (Crustacea: Decapoda). 329

Newman, G. G. and D. E. Pollock, Growth of the Rock Lobster *Jasus lalandii* and Its Relationship to Benthos. 339

Voronina, N. M., An Attempt at a Functional Analysis of the Distributional Range of *Euphausia superba*. 347